

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/001477

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G05B19/042 G06K7/00 G05B19/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G05B G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 956 465 A (NAKAMURA TAKAMASA ET AL) 21 September 1999 (1999-09-21)	1-5, 61, 62, 66-68, 99-103, 128, 131, 132
Y	column 15, line 26 - line 28 column 17, line 17 - line 54 column 31, line 21 - line 67; figure 5	63-65, 129, 130
Y	----- DE 38 32 375 A (RUHRKOHLE AG) 29 March 1990 (1990-03-29) abstract column 1, line 50 - line 60 column 2, line 21 - line 57 column 3, line 41 - line 50 -----	63-65, 129, 130

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
"&" document member of the same patent family

Date of the actual completion of the international search

5 November 2004

Date of mailing of the international search report

25. 01. 2005

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 99-102, 103, 61-69, 128-132

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5, 99-102, 103, 61-69, 128-132

Control regimen of machine when WID and/or user is in restricted facility location

2. claims: 50-60, 32-38

Enabling of WID, if enabled machine reacts with different regimen than when not enabled.

3. claims: 70-79, 133-137, 6, 19-31, 39-42, 110-112

Determination if operator device is activated and regulate machine to a third or second regimen depending on presence of WID in machine zone, if operator device is not activated, regulate machine to first regimen.

4. claims: 80-83, 46

Regulation of machine operation depening on extent of machine cycle completion when WID is present in restricted facility location

5. claims: 84-87, 43-44

Predicting of the future location of a WID within the facility and regulating a machine as a function of the predicted WID location

6. claims: 88-92, 138-139, 7-18, 47-49, 104-109, 113-119, 123, 124, 126, 127

More than one WID in machine zone, regulate machine regimen depending on WID type or combination of WID's being in the machine zone.

7. claims: 93-98, 140-141, 45, 120-122, 125

Determining facility user location and regulating machine operation depending as a function of the facility user location within the machine zone.

8. claims: 142-151

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Determining when communication with the WID within the
restricted facility location ceases and control machine
according to second regimen when communications with the WID
ceases.

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5956465	A	21-09-1999	JP 9272096 A	21-10-1997
			JP 10027022 A	27-01-1998
			JP 10067500 A	10-03-1998
			JP 10077200 A	24-03-1998
			JP 10187221 A	14-07-1998

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